Materials Method N.Y. 4

March 1, 1967
Revised March, 1978

NEW YORK STATE

DEPARTMENT OF TRANSPORTATION

MATERIALS BUREAU

# SAMPLING AND CONTROL OF WIRE FABRIC REINFORCEMENT FOR USE IN ALL ITEMS OTHER THAN CONCRETE PIPE

## SCOPE

This method describes specific procedures for the sampling and control of shipments of welded wire fabric for use as prefabricated reinforcement in portland cement concrete other than concrete pipe and supersedes all previous instructions issued for this material.

This material when intended for use in concrete pipe is covered by the provisions of Materials Method N.Y. 1.

## GENERAL METHOD

Samples of welded wire fabric are obtained by a Department representative at the manufacturing mill or steel supply house from each type or plan of fabric in lots set up by the supplier for eventual shipment to Department work.

All samples secured by the inspecting authority in compliance with these instructions are submitted to the Materials Bureau for test. At the time that samples are secured, the Inspector suitably tags the material represented by the sample to insure adequate identification through to the project site.

Upon satisfaction of specification requirements, a notice of acceptability as to quality is issued by the Bureau of Materials to the supplier by way of the inspecting authority. Material shall not be shipped until it has been accepted. Shipments of accepted material are accompanied by the Department's Certified Shipment Notice (Form BR97) executed by the supplier. This notice, together with a copy of the same notice processed through and validated by the Materials Bureau constitutes Evidence of Acceptability of the welded wire fabric, as to quality, at the project site.

It shall be the responsibility of the Engineer at the point of destination to ascertain that the wire size and spacing of the fabric is in conformance with the plans and/or specification.

SAMPLING

1. DEFINITION OF LOT - A lot of welded wire fabric shall consist of a stockpile quantity up to a maximum of 1500 sheets or 50 rolls of a specific style or plan of fabric.

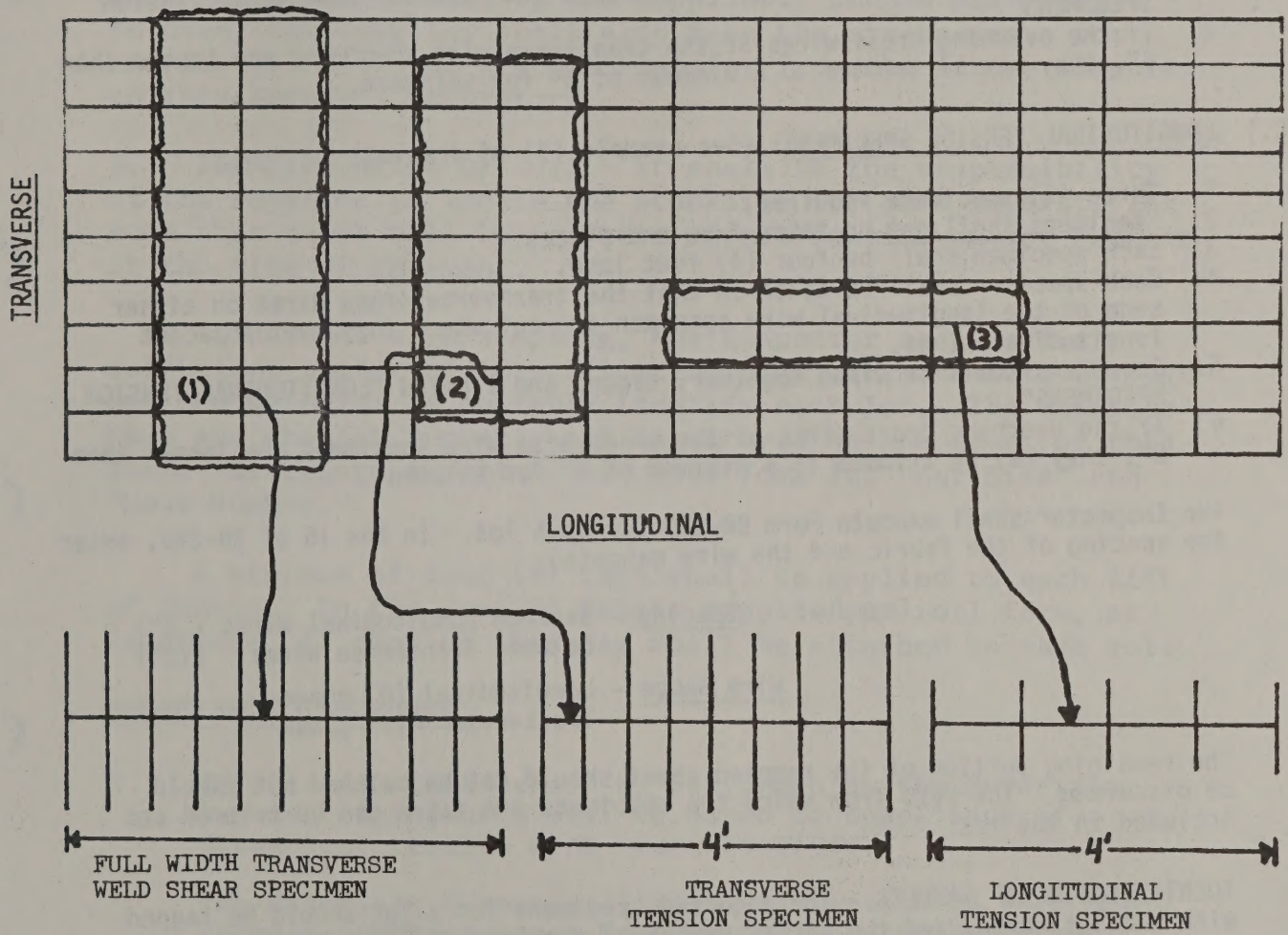
Consecutive lot numbers, starting with "1" at the beginning of each calendar year, shall be assigned by the Inspector to each lot at each supply location. Such lot numbers shall run consecutively through the calendar year regardless of the style or plan of fabric sampled.

2. SAMPLING PROCEDURE - The Inspector shall sample lots upon notification by a supplier that a new stockpile or stockpiles have been set up.

3. SELECTION OF SAMPLES - Upon arrival at the supply location, the Inspector shall ascertain that the material offered for sampling has been stockpiled with adequate physical separation to permit the identity and tagging of each individual lot.

All samples shall be selected at random by the Inspector from the material to be stockpiled. The Inspector shall personally select the samples and shall supervise their cutting. Any samples cut before the Inspector's arrival are not acceptable.

Sampling: Specimens shall be secured in conformance with the following diagram to represent each lot:




A.) FULL WIDTH TRANSVERSE WELD SHEAR SPECIMEN: (See example (1) of drawing)

1. One (1) specimen required.
2. Specimen shall not be taken from an end piece.
3. Specimen shall extend the entire width of the sheet or roll.
4. Specimen shall be taken so that the longitudinal cross wires on either side of the transverse wire specimen are cut where they meet adjacent transverse wires.
5. For shipment, the transverse wire specimen may be cut up in four (4) foot lengths, wired together, tagged and labeled "FULL WIDTH SHEAR SPECIMEN".
6. If the overhang cross wires of the transverse wire specimen are longer than 6", they may be trimmed to a minimum of 6" for shipment.

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Library
50 Wolf Road, POD 34
Albany, New York 12232

B.) TRANSVERSE TENSION SPECIMENS: (See example (2) of drawing)

1. Three (3) specimens required.
2. Specimens shall not be taken from end pieces.
3. Each specimen shall be four (4) feel long.
4. Each specimen shall be taken so that the longitudinal cross wires on either side of the transverse wire specimen are cut where they meet adjacent transverse wires.
5. Specimens shall be wired together, tagged and labeled "TRANSVERSE TENSION SPECIMENS".
6. If the overhang cross wires of the transverse wire specimens are longer than 6", they may be trimmed to a minimum of 6" for shipment.

C.) LONGITUDINAL TENSION SPECIMENS: (See example (3) of drawing)

1. Three (3) specimens required.
2. Specimens shall not be taken from end pieces.
3. Each specimen shall be four (4) feet long.
4. Each specimen shall be taken so that the transverse cross wires on either side of the longitudinal wire specimen are cut where they meet adjacent longitudinal wires.
5. Specimens shall be wired together, tagged and labeled "LONGITUDINAL TENSION SPECIMENS".
6. If the overhang cross wires of the transverse wire specimens are longer than 6", they may be trimmed to a minimum of 6" for shipment.

The Inspector shall execute Form BR-240 for each lot. In box 16 of BR-240, enter the spacing of the fabric and the wire gauge(s).

Example: Spacing - Between Longitudinal Wires ( 6")
Between Transverse Wires (12")

Wire Gauge - Longitudinal (0) guage
Transverse (3) guage

The remaining portion of the sampled sheet should not be patched but should be discarded. The roll from which the specimens are taken can be trimmed and included in the lot.

4. IDENTIFICATION OF SAMPLES - The required specimens for a lot should be tagged with the lot number and the serial number of the Form BR-240 submitted for the samples in addition to the name of the specimen (i.e., Transverse tension specimen). The specimens should be wrapped in heavy paper or burlap. The Form BR-240 inclosed in the BR-241 envelope should be placed inside the sample package. Care should be taken to protect the BR-240 from the sharp edges of the fabric. On the outside of the packaged fabric, there should be Form BR-108 shipment tag attached.

Samples of more than one lot may be bundled together for submission provided all specimens of each lot are wired together individually and that a Form BR-240 is inclosed for each lot.

Upon completion of identification, the Inspector shall personally deliver the samples to a trucker or commercial transfer office for transmission "Collect" to the Materials Bureau. Air Express or Air Freight service may be used at the supplier's option, provided all charges for this service are borne by the supplier. Should Air Freight be used, the supplier shall also make the arrangements for and pay all costs of freight transfer from the Albany airport to this Bureau's Laboratory.

5. IDENTIFICATION OF LOTS - It shall be the responsibility of the supplier to locate the stockpile for each separate lot such that there will be positive identification of lot numbers at the time of shipment.

Coincident with sampling, the Inspector shall affix a sufficient number of identification tags, Form BR-131, throughout the material to suitably identify each lot. The supplier's name and the lot number shall be entered on the front of this Form. Disregard the blanks on this form for "Bar Size" and "Heat Number."

A minimum of four (4) tags shall be applied to each lift of sheets. In the case of fabric supplied in roll form, at least one (1) copy of this tag shall be attached to each roll.

ACCEPTANCE PROCEDURE

1. TESTS - All tests shall be performed by the Materials Bureau. Acceptance will be based on compliance of these test results with specifications.

   The Materials Bureau will issue its action on Form BR240 "Sample and Acceptance Transmittal" to the Department representative taking the samples. The Department representative will notify the supplier of the action taken.

SHIPMENT PROCEDURE

Shipments shall be made only from accepted lots and all shipments shall be by the certification of the supplier. The supplier shall execute three (3) copies of Shipment Certification Form BR-97. One (1) copy of this form shall accompany each individual vehicle to the project site with the other two (2) copies mailed immediately to the Materials Bureau.

in Albany. The BR-97 shall accompany each truck, in possession of the driver, attached to the commercial shipment papers. This notice constitutes evidence of acceptability of the product for incorporation in the work at the project site.

One of the copies of Form BR-97 which had been forwarded to the Materials Bureau by the supplier will be validated by the Materials Bureau in the box provided for that purpose and forwarded to the Engineer at the project site by way of his Regional Office.

The copy of BR-97 received with the truck, coupled with the copy validated by the Materials Bureau constitutes final evidence of acceptability for payment purposes.

INVENTORY CONTROL

The supplier shall be responsible for furnishing, upon demand by the Department, a statement of all accepted lots indicating the quantity in each lot at any given time and the quantity that has been shipped to each Department project.

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BR 97e (3/73)

SHIPMENT CERTIFICATION

TO;

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

REGION NO. [ ] (Leave blank)

Plant Location: STEELVILLE, USA

Date of Shipment: 3/7 19 78

Date Executed: 3/7 19 78

This is to certify that on this date the following NYSDOT accepted material was shipped to the following NYSDOT project.

Contractor: ABC CONTRACTING CO. Dept. Contract No. D 90000

Geographic Destination: ROUND CORNER, N.Y. County: TIOGA

| Material | Test No. | Date Acc. | Lot No. | Item No. | Vehicle Type & No. | Size | Quantity & Unit |
|---|---|---|---|---|---|---|---|
| W.W. FABRIC | 78SP00 | 3/1/78 | 2 | 709-02 | TRAILER 1246 | 6X6 6&6 | 268 SHEETS |
| W.W. FABRIC | 78SP000 | 3/2/78 | 3 | 709-02 | TRAILER 1246 | 6X6 6&6 | 380 SHEETS |
| | | | | | | | |
| | | | | | | | |

Manufactured by: (if different than supplier)

Supplier's Name: REAL STEEL CO.

Signed: John Doe

SHIPMENT VALIDATION
(for use by NYSDOT when required)
Data relative to this shipment has been verified by this office.

DIST: WHITE – WITH SHIPMENT
YELLOW – MATERIALS BUR.
PINK – MATERIALS BUR.
GOLD – SHIPPER RETAINS

SPECIMEN COPY

01463
LRI